

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
1 March 2001 (01.03.2001)

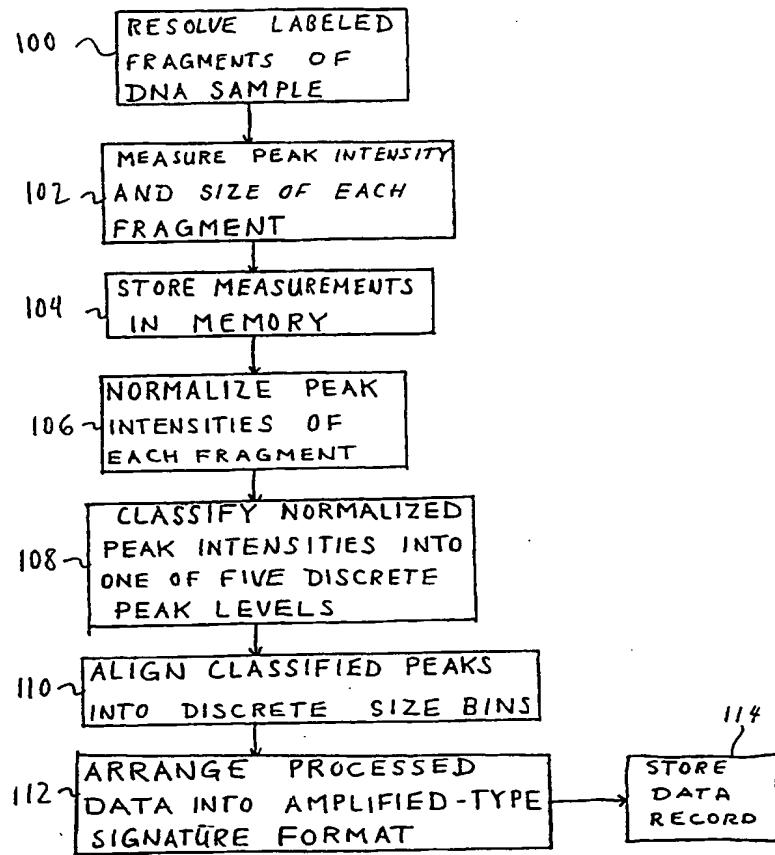
PCT

(10) International Publication Number
WO 01/15057 A1

- (51) International Patent Classification⁷: G06F 19/00 (74) Agent: ELLA CHEONG & G. MIRANDAH; P.O. Box 0931, Raffles City, Singapore 911732 (SG).
- (21) International Application Number: PCT/SG99/00087
- (22) International Filing Date: 21 August 1999 (21.08.1999)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): INSTITUTE OF MOLECULAR AGROBIOLOGY [SG/SG]; 1 Research Link, The National University of Singapore, Singapore 117604 (SG).
- (72) Inventors; and *fo o*
 (75) Inventors/Applicants (for US only): HONG, Yan [SG/SG]; Block 206 Bukit Batok St 21 #06-80, Singapore 650206 (SG); CHUAH, Aaron [MY/SG]; Block 329 Hwong East Avenue 1 #10-03, Singapore 609776 (SG).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DNA MARKER PROFILE DATA ANALYSIS



(57) Abstract: A method for converting raw DNA marker profile data into an easily understood, standardized format in which the location and relative intensity of every marker is sufficiently represented. Raw DNA marker profile data is analyzed to classify peak intensities into discrete intensity levels, and a binning algorithm is used to align the sizes or positions of sequence fragments into discrete integer sizes. A reward-penalty system is used to score comparisons of DNA fingerprint records.

WO 01/15057 A1